PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220							
NO 7539/WO	ACTION as	well as, where applicable, item 5 below.							
International application No.	International filing date (day/month/year)								
PCT/EP2004/006614	18/06/2004 23/06/2003								
Applicant									
NESTEC S A	AND COMPANY OF A STATE								
NESTEC S.A.									
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this international Searching ansmitted to the international Bureau.	Authority and is transmitted to the applicant							
This International Search Report consists	of a total of 8 sheets.								
X It is also accompanied by	a copy of each prior art document cited in	this report.							
Basis of the report a. With regard to the language, the language in which it was filed, un	international search was carried out on the less otherwise indicated under this item.	basis of the international application in the							
The international this Authority (Ru		ansiation of the international application furnished to							
b. With regard to any nucle	otide and/or amino acid sequence disclo	sed in the international application, see Box No. I.							
2. X Certain claims were fou	2. X Certain claims were found unsearchable (See Box II).								
3. Unity of invention is lacking (see Box III).									
4. With regard to the title,									
l	ubmitted by the applicant.								
X the text has been established	shed by this Authority to read as follows:								
INFANT OR FOLLOW-ON FO	ORMULA								
		;							
5. With regard to the abstract,									
X the text is approved as submitted by the applicant.									
the text has been established, according to Rule 38.2(b), by this Authority as It appears in Box No. IV. The applicant									
may, within one month from the date of mailing of this International search report, submit comments to this Authority.									
6. With regards to the drawings,									
a. the figure of the drawings to be	published with the abstract is Figure No								
as suggested by									
	his Authority, because the applicant falled t								
	his Authority, because this figure better cha	acterizes the invention.							
b. X none of the figures is to	be published with the abstract.								

International Application No PCT/EP2004/006614

a. classification of subject matter IPC 7 A23L1/29 A23L A23L1/305 A61K35/74 A23L1/30 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A23L A61K IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, FSTA, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category 1-21 EP 1 048 226 A (NESTLE SA) Υ 2 November 2000 (2000-11-02) the whole document US 5 916 621 A (SAWATZKI GUENTHER ET AL) 1-21 Υ 29 June 1999 (1999-06-29) claims 1-12 1-21 EP 1 228 707 A (CAMPINA MELKUNIE BV) Υ 7 August 2002 (2002-08-07) pages 2-3; claims 1-10 US 2003/077255 A1 (SABHARWAL HEMANT K) 1-21 24 April 2003 (2003-04-24) page 2, paragraph 14; claims 1-12 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention occument of particular relevants, the calmed universities cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled O document reterring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 11/10/2004 30 September 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 De Jong, E

International Application No
PCT/EP2004/006614

C (Centle:	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	70172120047000014
Category *		Relevant to claim No.
Y	EP 0 904 784 A (NUTRICIA NV) 31 March 1999 (1999-03-31) column 8, paragraph 58 - column 9, paragraph 64; example 7	1-21
Υ	WO 02/15719 A (NESTLE SA) 28 February 2002 (2002-02-28) example 6	1-14
Y	US 2003/017192 A1 (KANAFANI HANNY ET AL) 23 January 2003 (2003-01-23) page 1, paragraphs 5,6; claims 1-25; example 3	1-14
Y	OGATA T ET AL: "EFFECT OF BIFIDOBACTERIUM LONGUM BB536 YOGHURT ADMINISTRATION ON THE INTESTINAL ENVIRONMENT OF HEALTHY ADULTS" MICROBIAL ECOLOGY IN HEALTH & DISEASE, CHICHESTER, GB, vol. 11, no. 1, March 1999 (1999-03), pages 41-46, XP009023764 the whole document	4,7, 15-21
Y	GRILL J P ET AL: "Bifidobacteria and probiotic effects: action of Bifidobacterium species on conjugated bile salts." CURRENT MICROBIOLOGY 1995 CORRESPONDENCE (REPRINT) ADDRESS, J. BALLONGUE, LAB. DE CHIMIE BIOL., INST. HENRY TISSIER, UNIV. DE NANCY I, BP 239, 54506 VANDOEUVRE LES NANCY, FRANCE, vol. 31, no. 1, 1995, page 23, XP008036111 the whole document	4,7, 15-21
Y	ISOLAURI E ET AL: "Probiotics in the management of atopic eczema" CLINICAL AND EXPERIMENTAL ALLERGY, vol. 30, no. 11, November 2000 (2000-11), pages 1604-1610, XP002298117 ISSN: 0954-7894 the whole document	5-7, 15-21
Y	WO 02/060276 A (MAEYRAE-MAEKINEN ANNIKA; SUOMALAINEN TARJA (FI); VALIO LTD (FI); VAAR) 8 August 2002 (2002-08-08) the whole document	5-7, 15-21

International Application No
PCT/EP2004/006614

tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
SAXELIN M: "LACTOBACILLUS GG - A HUMAN PROBIOTIC STRAIN WITH THOROUGH CLINICAL DOCUMENTATION" FOOD REVIEWS INTERNATIONAL, NEW YORK, NY, US, vol. 13, no. 2, 1997, pages 293-313, XP000199732 pages 296-297 pages 310-304	5-7, 15-21
KALLIOMAKI M ET AL: "Probiotics and prevention of atopic disease: 4-year follow-up of a randomised placebo-controlled trial" LANCET THE, LANCET LIMITED. LONDON, GB, vol. 361, no. 9372, 31 May 2003 (2003-05-31), pages 1869-1871, XP004428374 ISSN: 0140-6736 the whole document	5-7, 15-21
US 2002/004527 A1 (0' CONNOR DEBORAH L ET AL) 10 January 2002 (2002-01-10) pages 1-10; claims 1-21	1,12,13
DE 202 02 562 U (ORTHOMOL PHARMAZEUTISCHE VERTR) 23 May 2002 (2002-05-23) claims 1,2	3
MATSUMOTO M ET AL: "ADHESIVE PROPERTY OF BIFIDOBACTERIUM LACTIS LKM512 AND PREDOMINANT BACTERIA OF INTESTINAL MICROFLORA TO HUMAN INTESTINAL MUCIN" CURRENT MICROBIOLOGY, NEW YORK, NY, US, vol. 44, no. 3, 2002, pages 212-215, XP008024172 ISSN: 0343-8651 page 212 page 215	3
BRUCK W M ET AL: "A two-stage continuous culture system to study the effect of supplemental alpha-lactalbumin and glycomacropeptide on mixed cultures of human gut bacteria challenged with enteropathogenic Escherichia coli and Salmonella serotype typhimurium." JOURNAL OF APPLIED MICROBIOLOGY, vol. 95, no. 1, 2003, pages 44-53, XP002261744 ISSN: 1364-5072	1
	PROBIOTIC STRAIN WITH THOROUGH CLINICAL DOCUMENTATION" FOOD REVIEWS INTERNATIONAL, NEW YORK, NY, US, vol. 13, no. 2, 1997, pages 293-313, XP000199732 pages 296-297 pages 310-304 KALLIOMAKI M ET AL: "Probiotics and prevention of atopic disease: 4-year follow-up of a randomised placebo-controlled trial" LANCET THE, LANCET LIMITED. LONDON, GB, vol. 361, no. 9372, 31 May 2003 (2003-05-31), pages 1869-1871, XP004428374 ISSN: 0140-6736 the whole document US 2002/004527 A1 (0' CONNOR DEBORAH L ET AL) 10 January 2002 (2002-01-10) pages 1-10; claims 1-21 DE 202 02 562 U (ORTHOMOL PHARMAZEUTISCHE VERTR) 23 May 2002 (2002-05-23) claims 1,2 MATSUMOTO M ET AL: "ADHESIVE PROPERTY OF BIFIDOBACTERIUM LACTIS LKM512 AND PREDOMINANT BACTERIA OF INTESTINAL MUCIN" CURRENT MICROBIOLOGY, NEW YORK, NY, US, vol. 44, no. 3, 2002, pages 212-215, XP008024172 ISSN: 0343-8651 page 212 page 215 BRUCK W M ET AL: "A two-stage continuous culture system to study the effect of supplemental alpha-lactalbumin and glycomacropeptide on mixed cultures of human gut bacteria challenged with enteropathogenic Escherichia coli and Salmonella serotype typhimurium." JOURNAL OF APPLIED MICROBIOLOGY, vol. 95, no. 1, 2003, pages 44-53,

International Application No
PCT/EP2004/006614

	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
A	EP 0 880 902 A (NESTLE PRODUKTE AG) 2 December 1998 (1998-12-02) cited in the application the whole document	1						
		·						

International application No. PCT/EP2004/006614

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 15-21(partly) because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 15-21 are directed to a method of treatment of the human body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

Information on patent family members

International Application No
PCT/EP2004/006614

	tent document in search report		Publication date		Patent family member(s)		Publication date
EP	1048226	A	02-11-2000	EP AU BR CA CN WO NO PL US ZA	2371696	B2 A A1 T A1 A A1 B1	02-11-2000 09-10-2003 13-03-2001 15-01-2002 22-02-2001 10-07-2002 22-02-2001 23-10-2001 05-05-2003 17-08-2004 13-01-2003
US	5916621	Α	29-06-1999	DE AT CA DE DK WO EP ES GR JP	4344342 176993 2179742 59407891 741522 9517102 0741522 2128703 3030373 9507123	T A1 D1 T3 A1 A1 T3 T3	29-06-1995 15-03-1999 29-06-1995 08-04-1999 04-10-1999 29-06-1995 13-11-1996 16-05-1999 30-09-1999 22-07-1997
EP	1228707	A	07-08-2002	EP WO EP JP US	1228707 02060279 1355541 2004519229 2004077539	A1 A1 T	07-08-2002 08-08-2002 29-10-2003 02-07-2004 22-04-2004
US	2003077255	A1	24-04-2003	NONE			
EΡ	0904784	Α	31-03-1999	EP	0904784	A1	31-03-1999
WO	0215719	A	28-02-2002	AU BR BR CA CN WO EP HU JP US US	9177701 9548801 0113367 0113390 2418285 2419026 1469712 1471363 0215719 0215720 1313378 1313376 0301475 0301586 2004506436 2004506437 2003202992 2002044988 2002044957	A A A A A A A A A A A A A A A A A A A	04-03-2002 04-03-2002 29-07-2003 29-07-2003 28-02-2002 28-02-2002 21-01-2004 28-02-2002 28-02-2002 28-02-2002 28-05-2003 28-05-2003 28-08-2003 28-08-2003 04-03-2004 04-03-2004 30-10-2003 18-04-2002
US	2003017192	A1	23-01-2003	CA EP WO	2451411 1404185 02102168	A1	27-12-2002 07-04-2004 27-12-2002

information on patent family members

International Application No
PCT/EP2004/006614

Patent document clted in search report	Publication date	Patent family member(s)	Publication date
WO 02060276		BR 0206689 A CA 2434337 A1 CN 1487798 T CZ 20031915 A3 EE 200300351 A EP 1359816 A1 WO 02060276 A1 HU 0401017 A2 JP 2004524836 T NO 20033283 A US 2004062758 A1	03-02-2004 08-08-2002 07-04-2004 14-01-2004 15-12-2003 12-11-2003 08-08-2002 30-08-2004 19-08-2004 24-09-2003 01-04-2004
US 2002004527	1 10-01-2002	AU 5533701 A CA 2405822 A1 CN 1436048 T EP 1272058 A2 JP 2004518609 T WO 0178530 A2 US 2003190363 A1 US 2002045660 A1	30-10-2001 25-10-2001 13-08-2003 08-01-2003 24-06-2004 25-10-2001 09-10-2003 18-04-2002
DE 20202562 EP 0880902		DE 20202562 U1 EP 0880902 A1 AU 746520 B2 AU 8107798 A BR 9809171 A CA 2288184 A1 WO 9853702 A1 EP 0986312 A1 JP 2002514085 T NZ 500848 A US 6787158 B1	23-05-2002